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August 21, 2013

Mr. Sukhdev Khakh  
Kamaljit Khakh Wood Trust

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**BY E-MAIL ONLY**

**RE: SUBSURFACE INVESTIGATION  
PLUMMER QUICK STOP  
300 10<sup>th</sup> STREET  
PLUMMER, IDAHO  
FARALLON PN: 1177-001**

Dear Mr. Khakh:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter report to document the results of the Subsurface Investigation of the Plummer Quick Stop property at 300 10<sup>th</sup> Street in Plummer, Idaho (herein referred to as the Site) (Figure 1). Previous subsurface investigations conducted at the Site have identified the following constituents of concern (COCs) in soil and/or groundwater at concentrations above applicable regulatory cleanup levels:

- Total petroleum hydrocarbons as gasoline-range organics (GRO), diesel-range organics (DRO), and oil-range organics (ORO);
- Benzene, toluene, ethylbenzene, and xylenes (BTEX); and
- Methyl tertiary-butyl ether (MTBE).

The purpose of the Subsurface Investigation was to comply with the letter regarding Status of Leaking Underground Storage Tank Site, Plummer Quick Stop-Plummer, Idaho, EPA UST Facility ID No. 2100026-Coeur d'Alene Indian Reservation dated January 22, 2013, prepared by the U.S. Environmental Protection Agency (EPA) requesting additional investigation to address the following data gaps associated with the Site:

- The nature and extent of COCs in soil and groundwater in the vicinity of the underground storage tanks (USTs); and
- The nature and extent of COCs in soil and groundwater along the western portion of the Site.

**SITE DESCRIPTION AND BACKGROUND**

The Site is located along U.S. Route 95 and currently is developed as a Quick Stop Mini Market and retail gasoline station. The Site is approximately 11,200 square feet in size and is developed with a single-story building constructed in 1984 that totals 1,740 square feet. The area west of the building is asphalt-paved. The eastern portion of the Site is unpaved and covered with



gravel. Two product-dispensing islands and associated product piping are west of the building. The UST system currently consists of three USTs located south of the building. Two of the USTs have a capacity of 6,000 gallons, the third has a capacity of 10,000 gallons. The USTs were installed in 1985 and are used to store gasoline for retail distribution. One of the 6,000-gallon USTs was previously used to store diesel fuel; the date of the conversion to gasoline is unknown. Existing Site features are depicted on Figure 2.

Howard Consultants, Inc. of Coeur d'Alene, Idaho conducted a Soil Contamination Assessment in 1991 to evaluate the potential release of petroleum products from the UST system. The results of the Soil Contamination Assessment are documented in the letter regarding Soil Contamination Assessment, Conoco, Plummer, Idaho dated July 12, 1991, prepared by Howard Consultants, Inc. According to the letter report, DRO was detected at concentrations ranging from 11 to 722 milligrams per kilogram (mg/kg) in soil samples collected from borings B-1 through B-4, located adjacent to the USTs (Figure 2). The maximum depth explored in borings B-1 through B-4 was 21 feet below ground surface (bgs). The Idaho Division of Environmental Quality (IDEQ) cleanup level for DRO in soil was 1,000 mg/kg at the time of the Soil Contamination Assessment.

Tracer Research Corporation conducted a Vapor Trace Shallow Soil Gas and Groundwater Investigation in 1995 to evaluate the potential presence of petroleum hydrocarbon constituents in the vicinity of the USTs, product piping, and an unspecified-volume aboveground storage tank (AST) located east of the USTs that contained diesel fuel. The results of the Vapor Trace Shallow Soil Gas and Groundwater Investigation are documented in the *Vapor Trace Shallow Soil Gas and Groundwater Investigation, Plummer Quick Stop, Plummer, Idaho* report dated February 8, 1995, prepared by Tracer Research Corporation. According to the report, total volatile hydrocarbons and/or BTEX constituents were detected at concentrations ranging from 0.06 to 51,000 micrograms per liter ( $\mu\text{g/l}$ ) in the 14 soil gas samples collected, and at concentrations ranging from 4 to 3,200,000  $\mu\text{g/l}$  in the 5 groundwater samples collected. The maximum depth explored during the Shallow Soil Gas and Groundwater Investigation was 13 feet bgs (Figure 2). BTEX constituents were detected in groundwater samples at concentrations that exceeded the Idaho Initial Default Target Levels (IDTLs) in effect at the time of the investigation. No IDTLs for soil gas or total volatile hydrocarbons had been established at the time of the Shallow Soil Gas and Groundwater Investigation.

Brown and Caldwell of Spokane, Washington conducted a Subsurface Investigation in 2001. The results of the Subsurface Investigation are documented in the letter regarding Pre-Insurance Underwriting Investigation, Plummer Quick Stop, Hwy 95 and Hwy 5, Plummer, Idaho dated November 30, 2001, prepared by Brown and Caldwell. According to the letter, 10 borings were advanced to 16 feet bgs (Figure 2). BTEX constituents were detected at concentrations that exceeded the IDEQ Tier 0 cleanup levels in shallow soil (1 to 4 feet bgs) samples collected from boring B-10. Benzene was detected at concentrations that exceeded the IDEQ Tier 0 cleanup levels in shallow soil samples collected from borings B-9 and B-10 (Figure 2).

DRO, BTEX constituents, and MTBE were detected in soil samples collected from borings B-1, B-2, and B-8 through B-10, adjacent to the former AST, the gasoline USTs, and associated



product lines (Figure 2), but at concentrations that did not exceed the IDEQ Tier 0 cleanup levels for soil.

A groundwater sample was collected from boring B-7 within a perched groundwater zone at 4 feet bgs. Benzene was detected at a concentration of 10.1 µg/l, which exceeded the IDEQ Tier 0 cleanup level for groundwater at the time of the Subsurface Investigation.

Blue Mountain Environmental Consulting Services of Waitsburg, Washington conducted a Phase II Site Investigation in 2008 to investigate and assess contamination of soil with petroleum products. The results of the Phase II Site Investigation are documented in the *Phase II Site Investigation at Plummer Quick Stop, 300 10<sup>th</sup> St., Plummer, Idaho* dated November 19, 2008, prepared by Blue Mountain Environmental Consulting Services. According to the report, benzene and xylenes were detected at concentrations that exceeded the IDTLs at the time of the Site Investigation in soil samples collected from borings B-2 and B-5, located west-adjacent to the northern product dispensing island and south-adjacent to the USTs, respectively (Figure 2). GRO was detected at a concentration of 200 mg/kg in the soil sample collected south-adjacent to the USTs, and ORO was detected at a concentration of 3,400 mg/kg in the soil sample collected west of the product-dispensing line. GRO and ORO did not have established IDTLs at the time of the 2008 Phase II Site Investigation; however, the concentrations detected exceeded Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A cleanup levels. The maximum depth explored was 12 feet bgs.

## SCOPE OF WORK

Farallon was contracted by Kamaljit Khakh Wood Trust to comply with the request by EPA in the letter regarding Status of Leaking Underground Storage Tank Site, Plummer Quick Stop-Plummer, Idaho, EPA UST Facility ID No. 2100026-Coeur d'Alene Indian Reservation dated January 22, 2013 to address the data gaps identified in the previous investigation work. The objective of the field work was to further refine the nature and extent of GRO, DRO, ORO, and BTEX in soil and groundwater. The scope of work conducted by Farallon included:

- Preparing a Health and Safety Plan in accordance with Chapter 296-62 of the Washington Administrative Code and Part 1910.120 of Title 29 of the Code of Federal Regulations prior to initiating field activities;
- Performing a utility locate at the boring locations using both a private utility location service and contacting the One-Call Utility Notification Center for utility locations;
- Advancing borings SB-1 through SB-5 along the western portion of the Site, and collecting soil and groundwater samples from each boring; and
- Advancing borings SB-6 and SB-7 south of the USTs at the Site and collecting soil and reconnaissance groundwater samples from each boring.

An overview of the Subsurface Investigation activities and findings is provided below.



## **SUBSURFACE UTILITY LOCATION**

Farallon contacted the One-Call Utility Notification Center and requested marking of utility lines on the eastern portion of the Site, which was completed on March 28, 2013. The subsurface utility line location was conducted at the Site on April 4, 2013 by Applied Professional Services of North Bend, Washington.

## **SOIL SAMPLING**

Direct-push drilling services for the advancement of seven borings at the Site were provided by Environmental West Exploration, Inc. of Spokane, Washington. The boring locations in the western portion of the Site were adjusted based on the marked location of a fiber optic utility. The boring locations are shown on Figure 2.

Soil samples were collected continuously from each boring. Borings SB-1 through SB-7 were advanced to depths ranging from 16 to 22 feet bgs. Soil samples were collected in accordance with ASTM International Standard D2488-09a, and EPA Method 5035, and were classified in accordance with the Unified Soil Classification System.

Field-screening included noting indications of visual or olfactory evidence of contamination, and conducting headspace analysis for the presence of volatile organic vapors using a photoionization detector. Headspace analysis was conducted by placing a portion of soil from each sample interval into a resealable plastic bag and allowing the sample to warm for several minutes. The probe of the photoionization detector was then inserted into the bag, and the highest reading obtained over an approximately 30-second interval was recorded. The Unified Soil Classification System symbol, notations of visual and olfactory evidence regarding the samples, and photoionization detector readings were recorded on boring log forms. The boring logs are provided in Attachment A.

Soil samples were collected directly from the core liner using disposable sampling equipment. Non-dedicated sampling equipment was decontaminated between uses. Soil samples were transferred immediately into laboratory-supplied sample containers and submitted to OnSite Environmental Inc. of Redmond, Washington for laboratory analysis for the following:

- GRO by Northwest Method NWTPH-Gx;
- DRO and ORO by Northwest Method NWTPH-Dx;
- BTEX by EPA Method 8260C; and
- Lead by EPA Methods 6010C.

Groundwater was not encountered to the total depth explored of 22 feet bgs in borings SB-1 through SB-7. Upon completion, each of the borings was abandoned by backfilling with bentonite to the ground surface and patched with asphalt.



## WASTE DISPOSAL

Soil cuttings generated during the drilling activities were placed into a labeled 16-gallon drum and stored on the Site pending waste profiling and proper disposal.

## RESULTS

The soil encountered in borings SB-1 through SB-7 generally consisted of: poorly graded sand with gravel; poorly graded gravel with sand; silty sand; and silt. Groundwater was not encountered in borings SB-1 through SB-7. The borings were drilled to depths ranging from 15 to 22 feet bgs. Borings were terminated due to soil density and the inability of the direct-push drill rig to penetrate further into the formation. The boring logs are presented in Attachment A.

Analytical results are summarized in Table 1 and on Figure 2. The laboratory analytical report is provided in Attachment B. BTEX concentrations were compared to the Idaho Administrative Code Department of Environmental Quality (DEQ) residential use soil screening levels, and lead concentrations were compared to the IDTLs. Because IDEQ does not have established cleanup or screening levels for GRO, DRO, or ORO, EPA requested that GRO, DRO, and ORO concentrations be compared to Washington State MTCA Method A cleanup levels.

GRO was detected at concentrations exceeding the MTCA Method A cleanup level in the soil samples collected from the following boring locations:

- SB-1 at 1.8 feet bgs;
- SB-2 at 8.0, 13.0, and 15.0 feet bgs; and
- SB-3 at 8.7 feet bgs.

GRO was not detected at concentrations at or exceeding the MTCA Method A cleanup level in the remaining soil samples collected from borings SB-1 through SB-7.

DRO was detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected from boring SB-7 at 22.0 feet bgs. DRO was not detected at concentrations at or exceeding the MTCA Method A cleanup level in the remaining soil samples collected from borings SB-1 through SB-7.

ORO was not detected at concentrations at or exceeding the MTCA Method A cleanup level in the soil samples collected from borings SB-1 through SB-7.

BTEX constituents were detected at concentrations exceeding the Idaho Administrative Code DEQ residential use soil screening levels in the soil samples collected from the following boring locations:

- SB-1 at 1.8, 9.0, and 12.0 feet bgs;
- SB-2 at 8.0, 12.0, 13.0, and 15.0 feet bgs;
- SB-3 at 15.0, 18.0, and 20.0 feet bgs;



- SB-4 at 12.0 feet bgs; and
- SB-6 at 4.0 feet bgs.

BTEX constituents were not detected at concentrations at or exceeding the Idaho Administrative Code DEQ residential use soil screening levels in the remaining soil samples collected from borings SB-1 through SB-7.

Lead was detected at a concentration exceeding the IDTL in the soil sample collected from boring SB-5 at 2.7 feet bgs. Lead was not detected at concentrations exceeding the IDTL in the remaining soil samples collected from borings SB-1 through SB-7.

## CONCLUSIONS

The historical and soil analytical data collected during this investigation indicate that a release of gasoline to the subsurface occurred at or proximate to the northern product dispenser. The distribution of the gasoline-related compounds detected is characteristic of a release associated with product-dispenser lines, which typically are located 1.5 to 3 feet bgs. The highest concentrations of GRO and BTEX were initially encountered at a depth of 1.8 feet bgs, and continued to a depth of 15 feet bgs based on the analytical data for borings SB-1 and SB-2 (Figure 2).

Gasoline-related compounds were detected also proximate to the product-dispenser lines and the southern product dispenser, although the concentrations of gasoline-related compounds detected at this location were much lower than those detected to the north. Contamination extends to a depth of at least 20 feet bgs based on the results from boring SB-3 (Figure 2).

The release(s) of gasoline-related compounds identified during this investigation do not appear representative of a recent release(s) of gasoline. The ratios of the BTEX constituents suggest that the release(s) have had time to naturally attenuate. The age of the release(s) cannot be determined from the existing data.

A release of diesel fuel associated with a 6,000-gallon UST formerly used to store diesel fuel, located near the existing USTs, was identified in soil from 14.5 to 22 feet bgs. The highest concentration of DRO was 3,000 mg/kg, detected in the soil sample collected at 22 feet bgs, which exceeds the MTCA Method A cleanup level of 2,000 mg/kg.

Groundwater, perched or otherwise, was not encountered to the maximum depth of drilling at 22 feet bgs. Farallon understands that during previous investigation work, evidence of groundwater was encountered at a depth of 4 feet bgs. It is unknown whether the groundwater encountered previously was a seasonal occurrence. However, current data indicate that a groundwater-bearing zone does not exist to a depth of 22 feet bgs.

The lateral and vertical limits of distribution of the various releases identified have not been adequately defined to evaluate technically feasible cleanup alternatives.





## LIMITATIONS

The conclusions contained in this report are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location, and are subject to the following inherent limitations:

- **Accuracy of Information.** Certain information used by Farallon in this report has been obtained, reviewed, and evaluated from various sources believed to be reliable, including the client, regulatory agencies, other consulting firms, and other agents for the client. Although Farallon's conclusions, opinions, and recommendations are based in part on such information, Farallon's services did not include verification of its accuracy or authenticity. Should such information prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and Characterization.** Farallon performed a reconnaissance and characterization of the Site that is the subject of this report to document current conditions. Farallon focused on areas subject to the scope of work herein. Contamination may exist in other areas of the Site that were not investigated or identified in historical information provided to Farallon to develop the scope of work herein.

## CLOSING

Farallon appreciates the opportunity to provide environmental consulting services for this project. We trust that this provides sufficient information for your needs. Please contact either of the undersigned at (425) 295-0800 if you have any questions or require additional information.

Sincerely,

**Farallon Consulting, L.L.C.**

Javan Ruark, G.I.T.  
Project Geologist

Jeffrey Kaspar, L.G., L.H.G.  
Senior Project Manager

Attachments: Figure 1, *Site Vicinity Map*  
Figure 2, *Site Plan Showing Soil Analytical Results*  
Table 1, *Soil Analytical Results*  
Attachment A, Boring Logs  
Attachment B, Laboratory Analytical Report

JR/PJ:bjj

## **FIGURES**

### **SUBSURFACE INVESTIGATION**

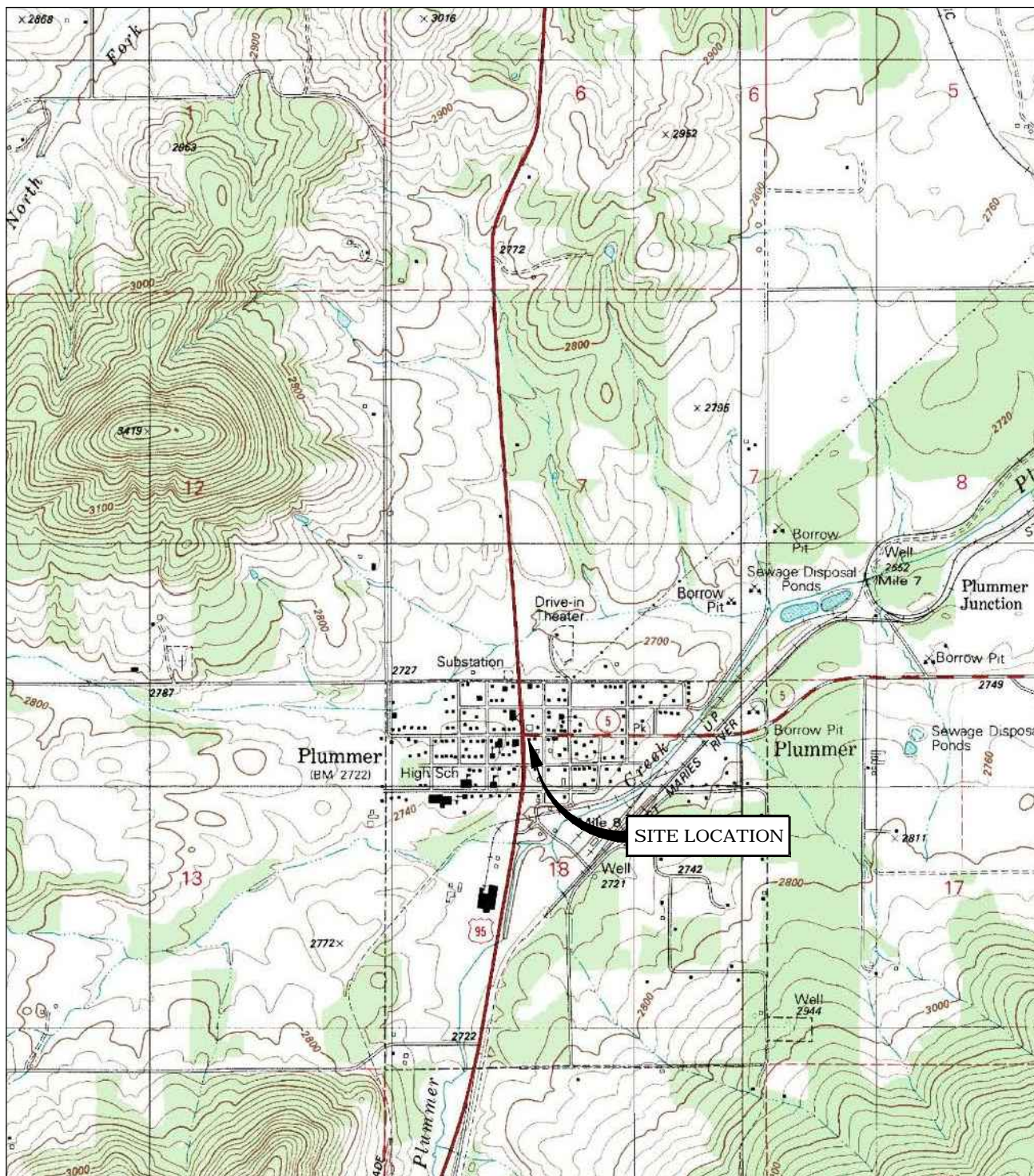
**Plummer Quick Stop**

**300 10<sup>th</sup> Street**

**Plummer, Idaho**

**Farallon PN: 1177-001**





REFERENCE: 7.5 MINUTE USGS QUADRANGLE PLUMMER, IDAHO. DATED 1981



**FARALLON CONSULTING**  
975 5th Avenue Northwest  
Issaquah, WA 98027

## FIGURE 1

SITE VICINITY MAP  
300 10th STREET  
PLUMMER, IDAHO

FARALLON PN:1177-001

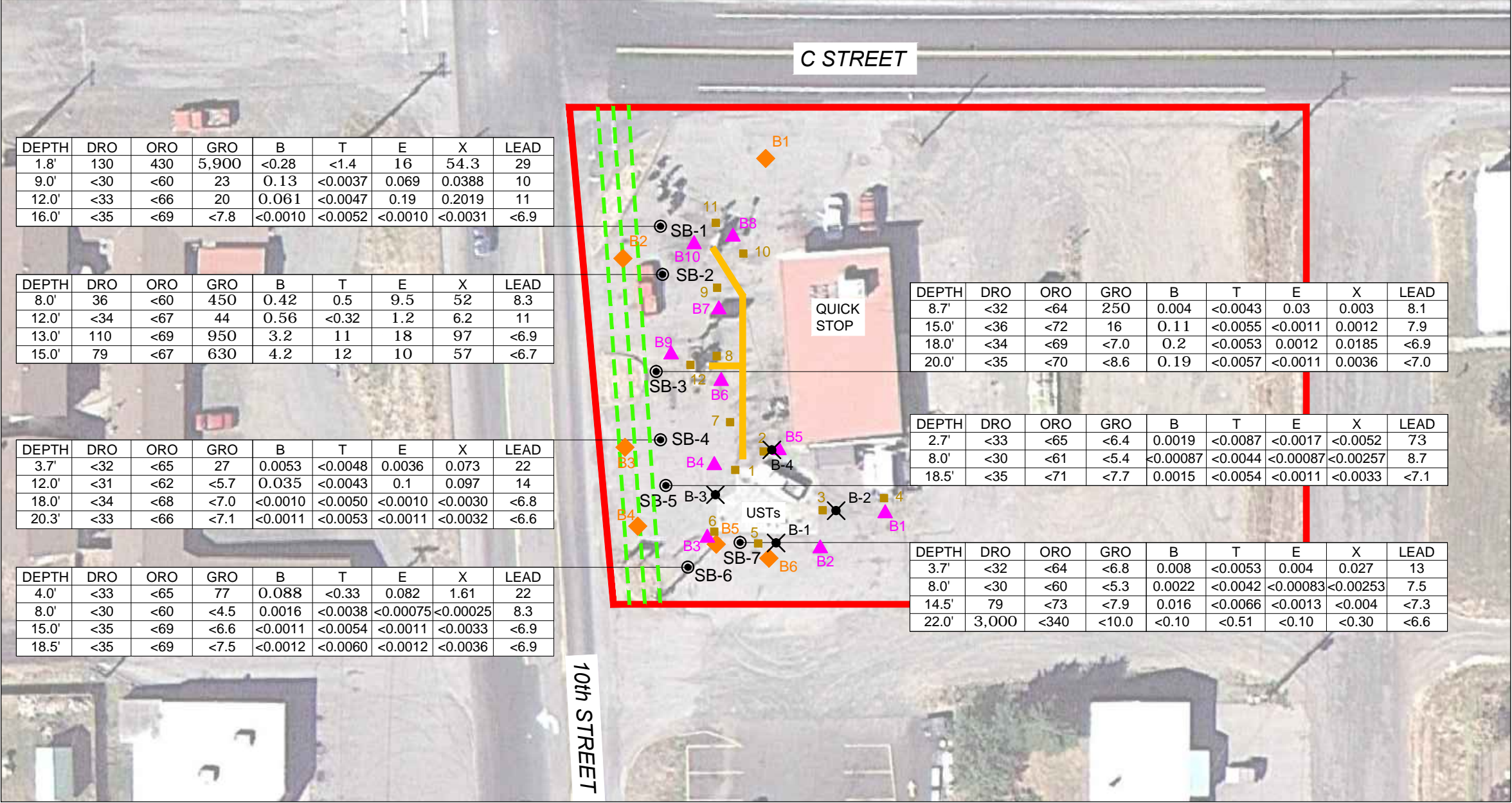
Drawn By: DEW

Checked By: TH

Date: 2/25/13

Disk Reference: 1177001





DEPTH	DRO	ORO	GRO	B	T	E	X	LEAD
1.8'	130	430	5,900	<0.28	<1.4	16	54.3	29
9.0'	<30	<60	23	0.13	<0.0037	0.069	0.0388	10
12.0'	<33	<66	20	0.061	<0.0047	0.19	0.2019	11
16.0'	<35	<69	<7.8	<0.0010	<0.0052	<0.0010	<0.0031	<6.9

DEPTH	DRO	ORO	GRO	B	T	E	X	LEAD
8.0'	36	<60	450	0.42	0.5	9.5	52	8.3
12.0'	<34	<67	44	0.56	<0.32	1.2	6.2	11
13.0'	110	<69	950	3.2	11	18	97	<6.9
15.0'	79	<67	630	4.2	12	10	57	<6.7

DEPTH	DRO	ORO	GRO	B	T	E	X	LEAD
3.7'	<32	<65	27	0.0053	<0.0048	0.0036	0.073	22
12.0'	<31	<62	<5.7	0.035	<0.0043	0.1	0.097	14
18.0'	<34	<68	<7.0	<0.0010	<0.0050	<0.0010	<0.0030	<6.8
20.3'	<33	<66	<7.1	<0.0011	<0.0053	<0.0011	<0.0032	<6.6

DEPTH	DRO	ORO	GRO	B	T	E	X	LEAD
4.0'	<33	<65	77	0.088	<0.33	0.082	1.61	22
8.0'	<30	<60	<4.5	0.0016	<0.0038	<0.00075	<0.00025	8.3
15.0'	<35	<69	<6.6	<0.0011	<0.0054	<0.0011	<0.0033	<6.9
18.5'	<35	<69	<7.5	<0.0012	<0.0060	<0.0012	<0.0036	<6.9

DEPTH	DRO	ORO	GRO	B	T	E	X	LEAD
8.7'	<32	<64	250	0.004	<0.0043	0.03	0.003	8.1
15.0'	<36	<72	16	0.11	<0.0055	<0.0011	0.0012	7.9
18.0'	<34	<69	<7.0	0.2	<0.0053	0.0012	0.0185	<6.9
20.0'	<35	<70	<8.6	0.19	<0.0057	<0.0011	0.0036	<7.0

DEPTH	DRO	ORO	GRO	B	T	E	X	LEAD
2.7'	<33	<65	<6.4	0.0019	<0.0087	<0.0017	<0.0052	73
8.0'	<30	<61	<5.4	<0.00087	<0.0044	<0.00087	<0.00257	8.7
18.5'	<35	<71	<7.7	0.0015	<0.0054	<0.0011	<0.0033	<7.1

DEPTH	DRO	ORO	GRO	B	T	E	X	LEAD
3.7'	<32	<64	<6.8	0.008	<0.0053	0.004	0.027	13
8.0'	<30	<60	<5.3	0.0022	<0.0042	<0.00083	<0.00253	7.5
14.5'	79	<73	<7.9	0.016	<0.0066	<0.0013	<0.004	<7.3
22.0'	3,000	<340	<10.0	<0.10	<0.51	<0.10	<0.30	<6.6

LEGEND

- SITE BOUNDARY
- APPROXIMATE LOCATION OF FIBER OPTIC LINE
- APPROXIMATE LOCATION OF PRODUCT LINE

- SB-7 BORING LOCATION (FARALLON 2013)
- B5 BORING LOCATION (BLUE MOUNTAIN CONSULTING 2008)
- B10 BORING LOCATION (BROWN CALDWELL 2001)
- 3 BORING LOCATION (TRACER RESEARCH COOPERATION 1995)
- B-2 BORING LOCATION (HOWARD CONSULTANTS, INC. 1991)

ALL LOCATIONS ARE APPROXIMATE

GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS  
DRO = TPH AS DIESEL-RANGE ORGANICS  
ORO = TPH AS OIL-RANGE ORGANICS  
B = BENZENE  
T = TOLUENE  
E = ETHYLBENZENE  
X = TOTAL XYLENES





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FIGURE 2  
SITE PLAN SHOWING  
SOIL ANALYTICAL RESULTS  
300 10th STREET  
PLUMMER, IDAHO

FARALLON PN:1177-001

## **TABLE**

### **SUBSURFACE INVESTIGATION**

**Plummer Quick Stop**

**300 10<sup>th</sup> Street**

**Plummer, Idaho**

**Farallon PN: 1177-001**

**Table 1**  
**Soil Analytical Results**  
**Plummer Quick Stop**  
**Plummer, Idaho**  
**Farallon PN: 1177-001**

Location	Sample Identification	Sampled By	Sample Date	Sample Depth (feet) <sup>1</sup>	Analytical Results (milligrams per kilogram)								Methyl tert-butyl ether <sup>4</sup>
					DRO <sup>2</sup>	ORO <sup>2</sup>	GRO <sup>3</sup>	Benzene <sup>4</sup>	Toluene <sup>4</sup>	Ethyl-benzene <sup>4</sup>	Xylenes <sup>4</sup>	Lead <sup>5</sup>	
SB-1	SB-1-1.8	Farallon	4/4/2013	1.8	130 M, N	430	<b>5,900</b>	<0.28 L	<1.4	<b>16</b>	<b>54.3</b>	29	--
	SB-1-9.0	Farallon	4/4/2013	9.0	<30	<60	23	<b>0.13</b>	<0.0037	0.069	0.0388	10	--
	SB-1-12.0	Farallon	4/4/2013	12.0	<33	<66	20	<b>0.061</b>	<0.0047	0.19	0.2019	11	--
	SB-1-16.0	Farallon	4/4/2013	16.0	<35	<69	<7.8	<0.0010	<0.0052	<0.0010	<0.0031	<6.9	--
SB-2	SB-2-8.0	Farallon	4/4/2013	8.0	36 M	<60	<b>450</b>	<b>0.42</b>	0.5	<b>9.5</b>	<b>52</b>	8.3	--
	SB-2-12.0	Farallon	4/4/2013	12.0	<34	<67	44	<b>0.56</b>	<0.32	<b>1.2</b>	6.2	11	--
	SB-2-13.0	Farallon	4/4/2013	13.0	110 M	<69	<b>950</b>	<b>3.2</b>	<b>11</b>	<b>18</b>	<b>97</b>	<6.9	--
	SB-2-15.0	Farallon	4/4/2013	15.0	79 M	<67	<b>630</b>	<b>4.2</b>	<b>12</b>	<b>10</b>	<b>57</b>	<6.7	--
SB-3	SB-3-8.7	Farallon	4/4/2013	8.7	<32	<64	<b>250</b>	0.004	<0.0043	0.03	0.003	8.1	--
	SB-3-15.0	Farallon	4/4/2013	15.0	<36	<72	16 T	<b>0.11</b>	<0.0055	<0.0011	0.0012	7.9	--
	SB-3-18.0	Farallon	4/4/2013	18.0	<34	<69	<7.0	<b>0.2</b>	<0.0053	0.0012	0.0185	<6.9	--
	SB-3-20.0	Farallon	4/4/2013	20.0	<35	<70	<8.6	<b>0.19</b>	<0.0057	<0.0011	0.0036	<7.0	--
SB-4	SB-4-3.7	Farallon	4/4/2013	3.7	<32	<65	27	0.0053	<0.0048	0.0036	0.073	22	--
	SB-4-12.0	Farallon	4/4/2013	12.0	<31	<62	<5.7	<b>0.035</b>	<0.0043	0.1	0.097	14	--
	SB-4-18.0	Farallon	4/4/2013	18.0	<34	<68	<7.0	<0.0010	<0.0050	<0.0010	<0.0030	<6.8	--
	SB-4-20.3	Farallon	4/4/2013	20.3	<33	<66	<7.1	<0.0011	<0.0053	<0.0011	<0.0032	<6.6	--
SB-5	SB-5-2.7	Farallon	4/4/2013	2.7	<33	<65	<6.4	0.0019	<0.0087	<0.0017	<0.0052	<b>73</b>	--
	SB-5-8.0	Farallon	4/4/2013	8.0	<30	<61	<5.4	<0.00087	<0.0044	<0.00087	<0.00257	8.7	--
	SB-5-18.5	Farallon	4/4/2013	18.5	<35	<71	<7.7	0.0015	<0.0054	<0.0011	<0.0033	<7.1	--
SB-6	SB-6-4.0	Farallon	4/4/2013	4.0	<33	<65	77	<b>0.088</b>	<0.33	0.082	1.61	22	--
	SB-6-8.0	Farallon	4/4/2013	8.0	<30	<60	<4.5	0.0016	<0.0038	<0.00075	<0.00225	8.3	--
	SB-6-15.0	Farallon	4/4/2013	15.0	<35	<69	<6.6	<0.0011	<0.0054	<0.0011	<0.0033	<6.9	--
	SB-6-18.5	Farallon	4/4/2013	18.5	<35	<69	<7.5	<0.0012	<0.0060	<0.0012	<0.0036	<6.9	--
SB-7	SB-7-3.7	Farallon	4/4/2013	3.7	<32	<64	<6.8	0.008	<0.0053	0.004	0.027	13	--
	SB-7-8.0	Farallon	4/4/2013	8.0	<30	<60	<5.3	0.0022	<0.0042	<0.00083	<0.00253	7.5	--
	SB-7-14.5	Farallon	4/4/2013	14.5	79	<73	<7.9	0.016	<0.0066	<0.0013	<0.004	<7.3	--
	SB-7-22.0	Farallon	4/4/2013	22.0	<b>3,000</b>	<340 U1	<10.0	<0.10 L	<0.51	<0.10	<0.30	<6.6	--
<b>Cleanup Levels for Soil</b>					<b>2,000 <sup>6</sup></b>	<b>2,000 <sup>6</sup></b>	<b>100 <sup>6</sup></b>	<b>0.025 <sup>7</sup></b>	<b>6.6 <sup>7</sup></b>	<b>0.25 <sup>7</sup></b>	<b>27 <sup>7</sup></b>	<b>49.6 <sup>8</sup></b>	<b>0.08 <sup>7</sup></b>

**NOTES:**

Results in **bold** denote concentrations above applicable cleanup levels.

-- denotes sample not analyzed

< denotes analyte not detected at or above the laboratory reporting limit listed.

<sup>1</sup>Depth in feet below ground surface.

<sup>2</sup>Analyzed by Northwest Method NWTPH-Dx/U.S. Environmental Protection Agency Method 8015/418.1MOD.

<sup>3</sup>Analyzed by Northwest Method NWTPH-Gx.

<sup>4</sup>Analyzed by U.S. Environmental Protection Agency Method 8260C/8260B/8021B.

<sup>5</sup>Analyzed by U.S. Environmental Protection Agency Method 6010C.

<sup>6</sup>Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended November 2007.

<sup>7</sup>Idaho Administrative Code Department of Environmental Quality (DEQ) Residential Use Soil Screening Levels, Table 2 of Section 800 of Chapter 24 of Title 01 of The Idaho Administrative Procedures Act (IDAPA) 58.

<sup>8</sup>Idaho Initial Default Target Levels (IDTLs) Soil Cleanup Levels, Appendix A of the Idaho Department of Environmental Quality Risk Evaluation Manual, July 2004.

BMEC = Blue Mountain Environmental Consulting

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

GRO = TPH as gasoline-range organics

HCI = Howard Consulting, Inc.

ORO = TPH as oil-range organics

L = requested practical quantitation limit is non-achievable due to necessary dilution of sample.

M = hydrocarbons in the gasoline range are impacting the diesel range result.

N = hydrocarbons in the lube oil range are impacting the diesel range result.

T = the sample chromatogram is not similar to a typical gas.

U1 = the practical quantitation limit is elevated due to interferences present in the sample.

**ATTACHMENT A  
BORING LOGS**

**SUBSURFACE INVESTIGATION**

Plummer Quick Stop  
300 10<sup>th</sup> Street  
Plummer, Idaho

Farallon PN: 1177-001

<b>Client:</b> Kamaljit Khakh Wood Trust	<b>Date/Time Started:</b> 4/4/2013 0920	<b>Sampler Type:</b> 4.0' Macrocore
<b>Project:</b> Plummer Quick Stop	<b>Date/Time Completed:</b> 4/4/2013 1019	<b>Drive Hammer (lbs.):</b> NA
<b>Location:</b> Plummer, Idaho	<b>Equipment:</b> Geoprobe 5400	<b>Depth of Water ATD (ft bgs):</b> NA
<b>Farallon PN:</b> 1177-001	<b>Drilling Company:</b> Environmental West	<b>Total Boring Depth (ft bgs):</b> 16.0
<b>Logged By:</b> Dincer Kayhan	<b>Drilling Foreman:</b>	<b>Total Well Depth (ft bgs):</b> NA
	<b>Drilling Method:</b> Direct-Push	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.3 ASPHALT and CONCRETE.	AC							
		0.3-0.8 Poorly graded SAND with gravel (70% sand, 30% gravel), fine to coarse sand, fine to coarse gravel, black to brown, dry, petroleum-like odor.	SP		85	NA	544			
		0.8-1.8 SILT with sand (80% silt, 20% sand), fine sand, grey, moist, petroleum-like odor.	ML				1,536	SB-1-1.8	x	
		1.8-2.3 Poorly graded GRAVEL with sand (65% gravel, 35% sand), fine to coarse gravel, fine to coarse sand, brown, moist, slight petroleum-like odor.	GP							
		2.3-3.4 SILT (90% silt, 10% sand), fine sand, grey, moist, slight odor.	ML				586			
5		4.0-8.0 SILT (90% silt, 10% sand), fine sand, grey to brown, moist, slight odor, sand and fine gravel increasing with depth.	ML							
		8.0-11.0 SILT (90% silt, 10% sand), fine sand, grey to brown, moist, no odor to 9.0, odor from 9.0 to 11.0.			100	NA	19.7			
		11.0-11.7 SILT (90% silt, 10% sand), fine sand, grey to brown, moist, petroleum-like odor.					10.7			
10		11.7-12.0 Poorly graded SAND (100% sand), rust to light brown, dry, petroleum-like odor.	SP				76.4			
		12.0-15.0 Poorly graded SAND (100% sand), rust to light brown, dry, petroleum-like odor, slight odor at 13.4.					104	SB-1-12.0	x	
15		15.0-16.0 Poorly graded SAND (100% sand), rust to light brown, dry, slight odor.					8.1			
					100	NA	7.5			
							2.6	SB-1-16.0	x	

<b>Monument Type:</b> NA	<b>Well Construction Information</b>				<b>Ground Surface Elevation (ft):</b> NA
<b>Casing Diameter (inches):</b> NA	<b>Filter Pack:</b> NA	<b>Surface Seal:</b> Asphalt	<b>Annular Seal:</b> NA	<b>Top of Casing Elevation (ft):</b> NA	<b>Boring Abandonment:</b> Bentonite
<b>Screen Slot Size (inches):</b> NA				<b>Surveyed Location:</b> X: NA Y: NA	
<b>Screened Interval (ft bgs):</b> NA					

<b>Client:</b> Kamaljit Khakh Wood Trust	<b>Date/Time Started:</b> 4/4/2013 1023	<b>Sampler Type:</b> 4.0' Macrocore
<b>Project:</b> Plummer Quick Stop	<b>Date/Time Completed:</b> 4/4/2013 1110	<b>Drive Hammer (lbs.):</b> NA
<b>Location:</b> Plummer, Idaho	<b>Equipment:</b> Geoprobe 5400	<b>Depth of Water ATD (ft bgs):</b> NA
<b>Farallon PN:</b> 1177-001	<b>Drilling Company:</b> Environmental West	<b>Total Boring Depth (ft bgs):</b> 15.0
<b>Logged By:</b> Dincer Kayhan	<b>Drilling Foreman:</b>	<b>Total Well Depth (ft bgs):</b> NA
	<b>Drilling Method:</b> Direct-Push	

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.4 ASPHALT and CONCRETE.	AC							
		0.4-2.0 Poorly graded SAND with gravel (60% sand, 40% gravel), fine to coarse sand, fine gravel, brown to grey, dry, slight odor.	SP							
		2.0-3.0 SILT (90% silt, 5% sand, 5% gravel), fine sand, fine gravel, grey, moist, odor.	ML							
					75	NA	156			
5		4.0-8.0 SILT (90% silt, 5% sand, 5% gravel), fine sand, fine gravel, grey, moist, odor.	ML							
		8.0-11.0 SILT (90% silt, 5% sand, 5% gravel), fine sand, fine gravel, grey, moist, slight odor.			100	NA	405	SB-2-8.0	x	
10		11.0-12.0 SILT (90% silt, 5% sand, 5% gravel), fine sand, fine gravel, grey, moist, odor.			100	NA	155			
		12.0-13.0 Poorly graded SAND (100% sand), fine to medium sand, moist to dry, light brown to grey to rust red, petroleum-like odor.	SP				336	SB-2-12.0	x	
		13.0-15.0 Poorly graded SAND (100% sand), fine to medium sand, moist to dry, light brown to grey to rust red, slight odor, strong odor at 15.0.					1,602	SB-2-13.0	x	
15					100	NA	1,879	SB-2-15.0	x	

<b>Monument Type:</b> NA	<b>Well Construction Information</b>				<b>Ground Surface Elevation (ft):</b> NA
<b>Casing Diameter (inches):</b> NA	<b>Filter Pack:</b> NA				<b>Top of Casing Elevation (ft):</b> NA
<b>Screen Slot Size (inches):</b> NA	<b>Surface Seal:</b> Asphalt				<b>Boring Abandonment:</b> Bentonite
<b>Screened Interval (ft bgs):</b> NA	<b>Annular Seal:</b> NA				<b>Surveyed Location:</b> X: NA Y: NA



**Client:** Kamaljit Khakh Wood Trust  
**Project:** Plummer Quick Stop  
**Location:** Plummer, Idaho

**Date/Time Started:** 4/4/2013 1117  
**Date/Time Completed:** 4/4/2013 1230  
**Equipment:** Geoprobe 5400  
**Drilling Company:** Environmental West  
**Drilling Foreman:**  
**Drilling Method:** Direct-Push

**Sampler Type:** 4.0' Macrocore  
**Drive Hammer (lbs.):** NA  
**Depth of Water ATD (ft bgs):** NA  
**Total Boring Depth (ft bgs):** 20.0  
**Total Well Depth (ft bgs):** NA

**Farallon PN:** 1177-001

**Logged By:** Dincer Kayhan

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.4 ASPHALT and CONCRETE.	AC							
		0.4-2.3 Poorly graded SAND with gravel (60% sand, 40% gravel), fine to coarse sand, fine to coarse gravel, grey, dry, petroleum-like odor.	SP							
					58	NA	9.9			
5		4.0-6.4 SILT, grey transitions to brown at 5.3, dry to 4.5, moist, slight odor.	ML							
					60	NA	8.4			
10		8.0-12.0 SILT, brown, moist, odor at 8.7, slight odor at 12.0.	ML				99.8	SB-3-8.7	x	
		12.0-14.0 Silty SAND (75% sand, 25% silt), fine sand, moist to dry, rust to grey, slight odor.	SM		100	NA	19.2	SB-3-12.0		
15		14.0-15.0 Silty SAND (75% sand, 25% silt), fine sand, moist to dry, rust to grey, slight odor.					7.4			
		15.0-18.0 Poorly graded SAND (100% sand), brown to grey, slight odor.	SP		100	NA	19.5	SB-3-15.0	x	
		18.0-20.0 Poorly graded SAND (100% sand), brown to grey, slight odor.			100	NA	30.2	SB-3-18.0	x	
20							90.2	SB-3-20.0	x	

Well Construction Information				Ground Surface Elevation (ft):	
<b>Monument Type:</b> NA		<b>Filter Pack:</b> NA		<b>Top of Casing Elevation (ft):</b> NA	
<b>Casing Diameter (inches):</b> NA		<b>Surface Seal:</b> Asphalt		<b>Boring Abandonment:</b> Bentonite	
<b>Screen Slot Size (inches):</b> NA		<b>Annular Seal:</b> NA		<b>Surveyed Location:</b> X: NA Y: NA	
<b>Screened Interval (ft bgs):</b> NA					

**Client:** Kamaljit Khakh Wood Trust  
**Project:** Plummer Quick Stop  
**Location:** Plummer, Idaho

**Farallon PN:** 1177-001

**Logged By:** Dincer Kayhan

**Date/Time Started:** 4/4/2013 1240  
**Date/Time Completed:** 4/4/2013 1350  
**Equipment:** Geoprobe 5400  
**Drilling Company:** Environmental West  
**Drilling Foreman:**  
**Drilling Method:** Direct-Push

**Sampler Type:** 4.0' Macrocore  
**Drive Hammer (lbs.):** NA  
**Depth of Water ATD (ft bgs):** NA  
**Total Boring Depth (ft bgs):** 20.3  
**Total Well Depth (ft bgs):** NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.6 ASPHALT and CONCRETE.	AC							
		0.6-2.3 Poorly graded GRAVEL with sand (60% gravel, 40% sand), fine to coarse gravel, fine to coarse sand, grey, dry, slight odor.	GP							
		2.3-2.6 Poorly graded SAND (100% sand), fine to medium sand, dark grey, slight odor.	SP							
		2.6-3.7 SILT (90% silt, 10% sand), fine sand, dark grey, moist, slight odor.	ML		93	NA	2.5	SB-4-3.7	x	
		4.0-6.5 SILT (90% silt, 10% sand), fine sand, dark grey, moist, slight odor, sand lense at 5.2.	ML							
					63	NA	1.5			
		8.0-12.0 SILT (90% silt, 10% sand), fine sand, brown, moist, slight odor.	ML							
		12.0-14.9 SILT (90% silt, 10% sand), fine sand, brown, moist, no odor.			100	NA	18.5			
							21.5	SB-4-12.0	x	
		14.9-20.3 Poorly graded SAND (100% sand), fine to medium sand, brown to rust to grey, dry, no odor.	SP		100	NA	2.4			
							1.4			
					100	NA	5.1	SB-4-18.0	x	
							1.2	SB-4-20.3	x	

<b>Well Construction Information</b>			<b>Ground Surface Elevation (ft):</b> NA	
<b>Monument Type:</b> NA	<b>Filter Pack:</b> NA	<b>Surface Seal:</b> Asphalt	<b>Top of Casing Elevation (ft):</b> NA	
<b>Casing Diameter (inches):</b> NA	<b>Annular Seal:</b> NA		<b>Boring Abandonment:</b> Bentonite	
<b>Screen Slot Size (inches):</b> NA			<b>Surveyed Location:</b> X: NA Y: NA	
<b>Screened Interval (ft bgs):</b> NA				

**Client:** Kamaljit Khakh Wood Trust  
**Project:** Plummer Quick Stop  
**Location:** Plummer, Idaho

**Farallon PN:** 1177-001

**Logged By:** Dincer Kayhan

**Date/Time Started:** 4/4/2013 1357  
**Date/Time Completed:** 4/4/2013 1525  
**Equipment:** Geoprobe 5400  
**Drilling Company:** Environmental West  
**Drilling Foreman:**  
**Drilling Method:** Direct-Push

**Sampler Type:** 4.0' Macrocore  
**Drive Hammer (lbs.):** NA  
**Depth of Water ATD (ft bgs):** NA  
**Total Boring Depth (ft bgs):** 18.5  
**Total Well Depth (ft bgs):** NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.4 ASPHALT and CONCRETE.	AC							
		0.4-1.3 Poorly graded SAND with gravel (60% sand, 40% gravel), fine to medium sand, fine gravel, grey, dry, no odor.	SP							
		1.3-2.0 Silty SAND (75% sand, 25% silt), fine to medium sand, dark grey, dry, no odor.	SM							
		2.0-2.7 SILT (90% silt, 10% sand), fine sand, dark grey, moist, no odor.	ML		68	NA	0.9	SB-5-2.7	x	
5		4.0-8.0 SILT (90% silt, 10% sand), fine sand, dark grey transitions to brown at 7.5, moist, no odor.	ML							
		8.0-16.0 SILT (90% silt, 10% sand), fine sand, brown, moist, slight odor.			100	NA	0.0	SB-5-8.0	x	
					100	NA	0.0			
15					100	NA	0.0	SB-5-15.0		
		16.0-18.5 Silty SAND (80% sand, 20% silt), fine to medium sand, rust to orange to brown, dry to moist, no odor.	SM				0.2			
					100	NA	1.6	SB-5-18.5	x	
20										

<b>Well Construction Information</b>				<b>Ground Surface Elevation (ft):</b> NA	
<b>Monument Type:</b> NA		<b>Filter Pack:</b> NA		<b>Top of Casing Elevation (ft):</b> NA	
<b>Casing Diameter (inches):</b> NA		<b>Surface Seal:</b> Asphalt		<b>Boring Abandonment:</b> Bentonite	
<b>Screen Slot Size (inches):</b> NA		<b>Annular Seal:</b> NA		<b>Surveyed Location:</b> X: NA Y: NA	
<b>Screened Interval (ft bgs):</b> NA					

**Client:** Kamaljit Khakh Wood Trust  
**Project:** Plummer Quick Stop  
**Location:** Plummer, Idaho

**Farallon PN:** 1177-001

**Logged By:** Dincer Kayhan

**Date/Time Started:** 4/4/2013 1530  
**Date/Time Completed:** 4/4/2013 1632  
**Equipment:** Geoprobe 5400  
**Drilling Company:** Environmental West  
**Drilling Foreman:**  
**Drilling Method:** Direct-Push

**Sampler Type:** 4.0' Macrocore  
**Drive Hammer (lbs.):** NA  
**Depth of Water ATD (ft bgs):** NA  
**Total Boring Depth (ft bgs):** 18.5  
**Total Well Depth (ft bgs):** NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.7 ASPHALT and CONCRETE.	AC							
		0.7-1.7 Poorly graded SAND with gravel (70% sand, 30% gravel), fine to medium sand, coarse gravel, grey, moist, slight petroleum-like odor.	SP							
		1.7-4.0 SILT (90% silt, 10% sand), grey, moist, slight petroleum-like odor.	ML							
		4.0-14.0 SILT (90% silt, 10% sand), grey, moist, no odor.			100	NA	3.8	SB-6-4.0	x	
5					100	NA	1.0	SB-6-4.0	x	
					100	NA	0.2			
		14.0-18.5 Poorly graded SAND with silt (90% sand, 10% silt), fine to medium sand, rust to brown to grey, moist to dry, no odor.	SP-SM		100	NA	0.2	SB-6-4.0	x	
							0.3			
					100	NA	1.7	SB-6-4.0	x	
20										

<b>Well Construction Information</b>			<b>Ground Surface Elevation (ft):</b> NA	
<b>Monument Type:</b> NA	<b>Filter Pack:</b> NA	<b>Surface Seal:</b> Asphalt	<b>Top of Casing Elevation (ft):</b> NA	
<b>Casing Diameter (inches):</b> NA	<b>Annular Seal:</b> NA	<b>Boring Abandonment:</b> Bentonite	<b>Surveyed Location:</b> X: NA Y: NA	
<b>Screen Slot Size (inches):</b> NA				
<b>Screened Interval (ft bgs):</b> NA				

**Client:** Kamaljit Khakh Wood Trust  
**Project:** Plummer Quick Stop  
**Location:** Plummer, Idaho

**Date/Time Started:** 4/4/2013 1635  
**Date/Time Completed:** 4/4/2013 1750  
**Equipment:** Geoprobe 5400  
**Drilling Company:** Environmental West  
**Drilling Foreman:**  
**Drilling Method:** Direct-Push

**Sampler Type:** 4.0' Macrocore  
**Drive Hammer (lbs.):** NA  
**Depth of Water ATD (ft bgs):** NA  
**Total Boring Depth (ft bgs):** 22.0  
**Total Well Depth (ft bgs):** NA

**Farallon PN:** 1177-001

**Logged By:** Dincer Kayhan

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.7 ASPHALT and CONCRETE.	AC							
		0.7-1.7 Poorly graded SAND with gravel (60% sand, 40% gravel), fine to coarse sand, fine to coarse gravel, grey, moist, no odor.	GP							
		2.1-2.7 Silty SAND (80% sand, 20% silt), fine to medium sand, grey, moist, no odor.	SM							
		2.7-3.7 SILT (100% silt), grey, moist, no odor.	ML							
5		4.0-8.0 SILT (100% silt), grey transitions to brown at 6.2, moist, no odor to slight odor from 11.5 to 12.0.	ML		93	NA	0.4	SB-7-3.7	x	
					100	NA	0.1	SB-7-8.0	x	
10					100	NA	0.1			
		12.2-17.5 Poorly graded SAND with silt (90% sand, 10% silt), fine to medium sand, rust to grey, moist to dry, petroleum-like odor.	SM		100	NA	0.1			
15							79.8	SB-7-14.5	x	
		17.5-20.0 Poorly graded SAND with silt (90% sand, 10% silt), fine to medium sand, rust to grey transitions to grey at 19.4, moist to dry, strong petroleum-like odor			100	NA	6.5			
20		20.0-22.0 Poorly graded SAND with silt (90% sand, 10% silt), fine to medium sand, blue to grey, moist to dry, strong petroleum-like odor					150.2			
					100	NA	296	SB-7-22.0	x	

Well Construction Information				Ground Surface Elevation (ft):	
<b>Monument Type:</b> NA	<b>Filter Pack:</b> NA	<b>Surface Seal:</b> Asphalt	<b>Annular Seal:</b> NA	<b>Top of Casing Elevation (ft):</b> NA	<b>Boring Abandonment:</b> Bentonite
<b>Casing Diameter (inches):</b> NA	<b>Screen Slot Size (inches):</b> NA	<b>Screened Interval (ft bgs):</b> NA	<b>Surveyed Location:</b> X: NA Y: NA		

**ATTACHMENT B**  
**LABORATORY ANALYTICAL REPORT**

**SUBSURFACE INVESTIGATION**

Plummer Quick Stop

300 10<sup>th</sup> Street

Plummer, Idaho

Farallon PN: 1177-001



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

April 17, 2013

Javan Ruark  
Farallon Consulting, LLC  
975 5<sup>th</sup> Avenue NW  
Issaquah, WA 98027

Re: Analytical Data for Project 1177-001  
Laboratory Reference No. 1304-057

Dear Javan:

Enclosed are the analytical results and associated quality control data for samples submitted on April 9, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", followed by a long horizontal flourish.

David Baumeister  
Project Manager

Enclosures



Date of Report: April 17, 2013  
Samples Submitted: April 9, 2013  
Laboratory Reference: 1304-057  
Project: 1177-001

### Case Narrative

Samples were collected on April 4, 2013 and received by the laboratory on April 9, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### NWTPH Gx Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

The chromatogram for sample SB-3-15.0 is not similar to that of a typical gas.

#### BTEX EPA 80260C Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

The project requested PQL for Benzene is non-achievable for samples SB-1-1.8 and SB-7-22.0 due to the necessary dilutions of the samples.

Surrogate Standard 4-Bromofluorobenzene is outside control limits for samples SB-1-1.8, SB-2-12.0, SB-3-8.7, and SB-7-22.0 due to co-eluting non-target analytes.

**Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.**

Date of Report: April 17, 2013  
 Samples Submitted: April 9, 2013  
 Laboratory Reference: 1304-057  
 Project: 1177-001

# **NWTPH-Gx**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-1-1.8</b>					
Laboratory ID:	04-057-01					
Gasoline	<b>5900</b>	280	NWTPH-Gx	4-10-13	4-12-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	---	70-132				S
<b>Client ID:</b>	<b>SB-1-9.0</b>					
Laboratory ID:	04-057-02					
Gasoline	<b>23</b>	5.1	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	104	70-132				
<b>Client ID:</b>	<b>SB-1-12.0</b>					
Laboratory ID:	04-057-03					
Gasoline	<b>20</b>	6.8	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	117	70-132				
<b>Client ID:</b>	<b>SB-1-16.0</b>					
Laboratory ID:	04-057-04					
Gasoline	<b>ND</b>	7.8	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	116	70-132				
<b>Client ID:</b>	<b>SB-2-8.0</b>					
Laboratory ID:	04-057-05					
Gasoline	<b>450</b>	9.5	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	117	70-132				
<b>Client ID:</b>	<b>SB-2-12.0</b>					
Laboratory ID:	04-057-06					
Gasoline	<b>44</b>	13	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	113	70-132				

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# **NWTPH-Gx**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-2-13.0</b>					
Laboratory ID:	04-057-07					
Gasoline	<b>950</b>	14	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	131	70-132				
<b>Client ID:</b>	<b>SB-2-15.0</b>					
Laboratory ID:	04-057-08					
Gasoline	<b>630</b>	34	NWTPH-Gx	4-10-13	4-12-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	110	70-132				
<b>Client ID:</b>	<b>SB-3-8.7</b>					
Laboratory ID:	04-057-09					
Gasoline	<b>250</b>	5.5	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	110	70-132				
<b>Client ID:</b>	<b>SB-3-15.0</b>					
Laboratory ID:	04-057-11					
Gasoline	<b>16</b>	8.8	NWTPH-Gx	4-10-13	4-11-13	T
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	119	70-132				
<b>Client ID:</b>	<b>SB-3-18.0</b>					
Laboratory ID:	04-057-12					
Gasoline	<b>ND</b>	7.0	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	111	70-132				
<b>Client ID:</b>	<b>SB-3-20.0</b>					
Laboratory ID:	04-057-13					
Gasoline	<b>ND</b>	8.6	NWTPH-Gx	4-10-13	4-11-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	109	70-132				
<b>Client ID:</b>	<b>SB-4-3.7</b>					
Laboratory ID:	04-057-14					
Gasoline	<b>27</b>	6.7	NWTPH-Gx	4-10-13	4-10-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	112	70-132				

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# **NWTPH-Gx**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-4-12.0</b>					
Laboratory ID:	04-057-15					
Gasoline	<b>ND</b>	5.7	NWTPH-Gx	4-10-13	4-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	115	70-132				
<b>Client ID:</b>	<b>SB-4-18.0</b>					
Laboratory ID:	04-057-16					
Gasoline	<b>ND</b>	7.0	NWTPH-Gx	4-10-13	4-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	107	70-132				
<b>Client ID:</b>	<b>SB-4-20.3</b>					
Laboratory ID:	04-057-17					
Gasoline	<b>ND</b>	7.1	NWTPH-Gx	4-10-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	102	70-132				
<b>Client ID:</b>	<b>SB-5-2.7</b>					
Laboratory ID:	04-057-18					
Gasoline	<b>ND</b>	6.4	NWTPH-Gx	4-10-13	4-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	104	70-132				
<b>Client ID:</b>	<b>SB-5-8.0</b>					
Laboratory ID:	04-057-19					
Gasoline	<b>ND</b>	5.4	NWTPH-Gx	4-10-13	4-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	106	70-132				

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# **NWTPH-Gx**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-5-18.5</b>					
Laboratory ID:	04-057-21					
Gasoline	<b>ND</b>	7.7	NWTPH-Gx	4-10-13	4-10-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	111	70-132				
<b>Client ID:</b>	<b>SB-6-4.0</b>					
Laboratory ID:	04-057-22					
Gasoline	<b>77</b>	6.7	NWTPH-Gx	4-10-13	4-10-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	107	70-132				
<b>Client ID:</b>	<b>SB-6-8.0</b>					
Laboratory ID:	04-057-23					
Gasoline	<b>ND</b>	4.5	NWTPH-Gx	4-11-13	4-12-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	104	70-132				
<b>Client ID:</b>	<b>SB-6-15.0</b>					
Laboratory ID:	04-057-24					
Gasoline	<b>ND</b>	6.6	NWTPH-Gx	4-11-13	4-12-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	113	70-132				
<b>Client ID:</b>	<b>SB-6-18.5</b>					
Laboratory ID:	04-057-25					
Gasoline	<b>ND</b>	7.5	NWTPH-Gx	4-11-13	4-12-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	109	70-132				
<b>Client ID:</b>	<b>SB-7-3.7</b>					
Laboratory ID:	04-057-26					
Gasoline	<b>ND</b>	6.8	NWTPH-Gx	4-11-13	4-12-13	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	100	70-132				

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# **NWTPH-Gx**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-7-8.0</b>					
Laboratory ID:	04-057-27					
Gasoline	<b>ND</b>	5.3	NWTPH-Gx	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	70-132				
<b>Client ID:</b>	<b>SB-7-14.5</b>					
Laboratory ID:	04-057-28					
Gasoline	<b>ND</b>	7.9	NWTPH-Gx	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	107	70-132				
<b>Client ID:</b>	<b>SB-7-22.0</b>					
Laboratory ID:	04-057-29					
Gasoline	<b>ND</b>	10	NWTPH-Gx	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	70-132				

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**NWTPH-Gx  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0410S1					
Gasoline	ND	5.0	NWTPH-Gx	4-10-13	4-10-13	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	97	70-132				
Laboratory ID:	MB0410S2					
Gasoline	ND	5.0	NWTPH-Gx	4-10-13	4-10-13	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	98	70-132				
Laboratory ID:	MB0411S1					
Gasoline	ND	5.0	NWTPH-Gx	4-11-13	4-11-13	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	95	70-132				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	04-057-18									
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						104	103	70-132		
Laboratory ID:	04-057-19									
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						106	111	70-132		
Laboratory ID:	04-077-01									
	ORIG	DUP								
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						114	107	70-132		



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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-1-1.8</b>					
Laboratory ID:	04-057-01					
Benzene	ND	0.28	EPA 8260C	4-10-13	4-12-13	
Toluene	ND	1.4	EPA 8260C	4-10-13	4-12-13	
Ethylbenzene	16	0.28	EPA 8260C	4-10-13	4-12-13	
m,p-Xylene	53	0.57	EPA 8260C	4-10-13	4-12-13	
o-Xylene	1.3	0.28	EPA 8260C	4-10-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	63-127				
<i>Toluene-d8</i>	118	65-129				
<i>4-Bromofluorobenzene</i>	163	52-125				Q

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-1-9.0</b>					
Laboratory ID:	04-057-02					
Benzene	0.13	0.00074	EPA 8260C	4-10-13	4-10-13	
Toluene	ND	0.0037	EPA 8260C	4-10-13	4-10-13	
Ethylbenzene	0.069	0.00074	EPA 8260C	4-10-13	4-10-13	
m,p-Xylene	0.034	0.0015	EPA 8260C	4-10-13	4-10-13	
o-Xylene	0.0048	0.00074	EPA 8260C	4-10-13	4-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-1-12.0</b>					
Laboratory ID:	04-057-03					
Benzene	0.061	0.00095	EPA 8260C	4-10-13	4-10-13	
Toluene	ND	0.0047	EPA 8260C	4-10-13	4-10-13	
Ethylbenzene	0.19	0.00095	EPA 8260C	4-10-13	4-10-13	
m,p-Xylene	0.20	0.0019	EPA 8260C	4-10-13	4-10-13	
o-Xylene	0.0019	0.00095	EPA 8260C	4-10-13	4-10-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-1-16.0</b>					
Laboratory ID:	04-057-04					
Benzene	ND	0.0010	EPA 8260C	4-11-13	4-12-13	
Toluene	ND	0.0052	EPA 8260C	4-11-13	4-12-13	
Ethylbenzene	ND	0.0010	EPA 8260C	4-11-13	4-12-13	
m,p-Xylene	ND	0.0021	EPA 8260C	4-11-13	4-12-13	
o-Xylene	ND	0.0010	EPA 8260C	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-2-8.0</b>					
Laboratory ID:	04-057-05					
Benzene	0.42	0.048	EPA 8260C	4-10-13	4-12-13	
Toluene	0.50	0.24	EPA 8260C	4-10-13	4-12-13	
Ethylbenzene	9.5	0.048	EPA 8260C	4-10-13	4-12-13	
m,p-Xylene	40	0.95	EPA 8260C	4-10-13	4-12-13	
o-Xylene	12	0.48	EPA 8260C	4-10-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>52-125</i>				

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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-2-12.0</b>					
Laboratory ID:	04-057-06					
Benzene	0.56	0.065	EPA 8260C	4-10-13	4-12-13	
Toluene	ND	0.32	EPA 8260C	4-10-13	4-12-13	
Ethylbenzene	1.2	0.065	EPA 8260C	4-10-13	4-12-13	
m,p-Xylene	4.6	0.13	EPA 8260C	4-10-13	4-12-13	
o-Xylene	1.6	0.065	EPA 8260C	4-10-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>130</i>	<i>52-125</i>				Q

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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-2-13.0</b>					
Laboratory ID:	04-057-07					
Benzene	3.2	0.071	EPA 8260C	4-10-13	4-12-13	
Toluene	11	0.35	EPA 8260C	4-10-13	4-12-13	
Ethylbenzene	18	0.71	EPA 8260C	4-10-13	4-12-13	
m,p-Xylene	70	1.4	EPA 8260C	4-10-13	4-12-13	
o-Xylene	27	0.71	EPA 8260C	4-10-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>116</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-2-15.0</b>					
Laboratory ID:	04-057-08					
Benzene	4.2	0.68	EPA 8260C	4-10-13	4-12-13	
Toluene	12	3.4	EPA 8260C	4-10-13	4-12-13	
Ethylbenzene	10	0.68	EPA 8260C	4-10-13	4-12-13	
m,p-Xylene	41	1.4	EPA 8260C	4-10-13	4-12-13	
o-Xylene	16	0.68	EPA 8260C	4-10-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>52-125</i>				



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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SB-3-8.7</b>					
Laboratory ID:	04-057-09					
Benzene	0.0040	0.00086	EPA 8260C	4-11-13	4-12-13	
Toluene	ND	0.0043	EPA 8260C	4-11-13	4-12-13	
Ethylbenzene	0.030	0.00086	EPA 8260C	4-11-13	4-12-13	
m,p-Xylene	0.0030	0.0017	EPA 8260C	4-11-13	4-12-13	
o-Xylene	ND	0.00086	EPA 8260C	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>126</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>153</i>	<i>52-125</i>				Q

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-3-15.0</b>					
Laboratory ID:	04-057-11					
Benzene	0.11	0.0011	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0055	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.0011	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.0022	EPA 8260C	4-11-13	4-11-13	
o-Xylene	0.0012	0.0011	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-3-18.0</b>					
Laboratory ID:	04-057-12					
Benzene	0.20	0.0011	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0053	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	0.0012	0.0011	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	0.017	0.0021	EPA 8260C	4-11-13	4-11-13	
o-Xylene	0.0015	0.0011	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>118</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-3-20.0</b>					
Laboratory ID:	04-057-13					
Benzene	0.19	0.0011	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0057	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.0011	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	0.0023	0.0023	EPA 8260C	4-11-13	4-11-13	
o-Xylene	0.0013	0.0011	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-4-3.7</b>					
Laboratory ID:	04-057-14					
Benzene	0.0053	0.00096	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0048	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	0.0036	0.00096	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	0.061	0.0019	EPA 8260C	4-11-13	4-11-13	
o-Xylene	0.012	0.00096	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-4-12.0</b>					
Laboratory ID:	04-057-15					
Benzene	0.035	0.00086	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0043	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	0.10	0.00086	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	0.097	0.0017	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.00086	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>116</i>	<i>52-125</i>				

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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-4-18.0</b>					
Laboratory ID:	04-057-16					
Benzene	ND	0.0010	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0050	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.0010	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.0020	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.0010	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>52-125</i>				

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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-4-20.3</b>					
Laboratory ID:	04-057-17					
Benzene	ND	0.0011	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0053	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.0011	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.0021	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.0011	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>52-125</i>				



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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SB-5-2.7</b>					
Laboratory ID:	04-057-18					
Benzene	0.0019	0.0017	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0087	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.0017	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.0035	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.0017	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>52-125</i>				

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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-5-8.0</b>					
Laboratory ID:	04-057-19					
Benzene	ND	0.00087	EPA 8260C	4-11-13	4-12-13	
Toluene	ND	0.0044	EPA 8260C	4-11-13	4-12-13	
Ethylbenzene	ND	0.00087	EPA 8260C	4-11-13	4-12-13	
m,p-Xylene	ND	0.0017	EPA 8260C	4-11-13	4-12-13	
o-Xylene	ND	0.00087	EPA 8260C	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>52-125</i>				

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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-5-18.5</b>					
Laboratory ID:	04-057-21					
Benzene	0.0015	0.0011	EPA 8260C	4-11-13	4-12-13	
Toluene	ND	0.0054	EPA 8260C	4-11-13	4-12-13	
Ethylbenzene	ND	0.0011	EPA 8260C	4-11-13	4-12-13	
m,p-Xylene	ND	0.0022	EPA 8260C	4-11-13	4-12-13	
o-Xylene	ND	0.0011	EPA 8260C	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>52-125</i>				

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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-6-4.0</b>					
Laboratory ID:	04-057-22					
Benzene	0.088	0.067	EPA 8260C	4-10-13	4-12-13	
Toluene	ND	0.33	EPA 8260C	4-10-13	4-12-13	
Ethylbenzene	0.082	0.067	EPA 8260C	4-10-13	4-12-13	
m,p-Xylene	0.99	0.13	EPA 8260C	4-10-13	4-12-13	
o-Xylene	0.62	0.067	EPA 8260C	4-10-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>52-125</i>				

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**BTEX  
 EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-6-8.0</b>					
Laboratory ID:	04-057-23					
Benzene	0.0016	0.00075	EPA 8260C	4-12-13	4-12-13	
Toluene	ND	0.0038	EPA 8260C	4-12-13	4-12-13	
Ethylbenzene	ND	0.00075	EPA 8260C	4-12-13	4-12-13	
m,p-Xylene	ND	0.0015	EPA 8260C	4-12-13	4-12-13	
o-Xylene	ND	0.00075	EPA 8260C	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-6-15.0</b>					
Laboratory ID:	04-057-24					
Benzene	ND	0.0011	EPA 8260C	4-12-13	4-12-13	
Toluene	ND	0.0054	EPA 8260C	4-12-13	4-12-13	
Ethylbenzene	ND	0.0011	EPA 8260C	4-12-13	4-12-13	
m,p-Xylene	ND	0.0021	EPA 8260C	4-12-13	4-12-13	
o-Xylene	ND	0.0011	EPA 8260C	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-6-18.5</b>					
Laboratory ID:	04-057-25					
Benzene	ND	0.0012	EPA 8260C	4-12-13	4-12-13	
Toluene	ND	0.0060	EPA 8260C	4-12-13	4-12-13	
Ethylbenzene	ND	0.0012	EPA 8260C	4-12-13	4-12-13	
m,p-Xylene	ND	0.0024	EPA 8260C	4-12-13	4-12-13	
o-Xylene	ND	0.0012	EPA 8260C	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>120</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-7-3.7</b>					
Laboratory ID:	04-057-26					
Benzene	0.0080	0.0011	EPA 8260C	4-12-13	4-12-13	
Toluene	ND	0.0053	EPA 8260C	4-12-13	4-12-13	
Ethylbenzene	0.0040	0.0011	EPA 8260C	4-12-13	4-12-13	
m,p-Xylene	0.018	0.0021	EPA 8260C	4-12-13	4-12-13	
o-Xylene	0.0090	0.0011	EPA 8260C	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>52-125</i>				



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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-7-8.0</b>					
Laboratory ID:	04-057-27					
Benzene	0.0022	0.00083	EPA 8260C	4-12-13	4-12-13	
Toluene	ND	0.0042	EPA 8260C	4-12-13	4-12-13	
Ethylbenzene	ND	0.00083	EPA 8260C	4-12-13	4-12-13	
m,p-Xylene	ND	0.0017	EPA 8260C	4-12-13	4-12-13	
o-Xylene	ND	0.00083	EPA 8260C	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-7-14.5</b>					
Laboratory ID:	04-057-28					
Benzene	0.016	0.0013	EPA 8260C	4-12-13	4-12-13	
Toluene	ND	0.0066	EPA 8260C	4-12-13	4-12-13	
Ethylbenzene	ND	0.0013	EPA 8260C	4-12-13	4-12-13	
m,p-Xylene	ND	0.0027	EPA 8260C	4-12-13	4-12-13	
o-Xylene	ND	0.0013	EPA 8260C	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>52-125</i>				

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**BTEX**  
**EPA 8260C**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>SB-7-22.0</b>					
Laboratory ID:	04-057-29					
Benzene	ND	0.10	EPA 8260C	4-11-13	4-12-13	
Toluene	ND	0.51	EPA 8260C	4-11-13	4-12-13	
Ethylbenzene	ND	0.10	EPA 8260C	4-11-13	4-12-13	
m,p-Xylene	ND	0.20	EPA 8260C	4-11-13	4-12-13	
o-Xylene	ND	0.10	EPA 8260C	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>146</i>	<i>52-125</i>				Q

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**BTEX  
 EPA 8260C  
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0410S1					
Benzene	ND	0.0010	EPA 8260C	4-10-13	4-10-13	
Toluene	ND	0.0050	EPA 8260C	4-10-13	4-10-13	
Ethylbenzene	ND	0.0010	EPA 8260C	4-10-13	4-10-13	
m,p-Xylene	ND	0.0020	EPA 8260C	4-10-13	4-10-13	
o-Xylene	ND	0.0010	EPA 8260C	4-10-13	4-10-13	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	63-127				
Toluene-d8	107	65-129				
4-Bromofluorobenzene	109	52-125				
Laboratory ID:	MB0411S1					
Benzene	ND	0.0010	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	0.0050	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.0010	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.0020	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.0010	EPA 8260C	4-11-13	4-11-13	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	111	63-127				
Toluene-d8	107	65-129				
4-Bromofluorobenzene	115	52-125				
Laboratory ID:	MB0412S1					
Benzene	ND	0.0010	EPA 8260C	4-12-13	4-12-13	
Toluene	ND	0.0050	EPA 8260C	4-12-13	4-12-13	
Ethylbenzene	ND	0.0010	EPA 8260C	4-12-13	4-12-13	
m,p-Xylene	ND	0.0020	EPA 8260C	4-12-13	4-12-13	
o-Xylene	ND	0.0010	EPA 8260C	4-12-13	4-12-13	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	102	63-127				
Toluene-d8	113	65-129				
4-Bromofluorobenzene	123	52-125				

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**BTEX  
 EPA 8260C  
 SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0410S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0519	0.0509	0.0500	0.0500	104	102	65-141	2	15	
Benzene	0.0478	0.0468	0.0500	0.0500	96	94	69-121	2	15	
Trichloroethene	0.0480	0.0472	0.0500	0.0500	96	94	75-120	2	15	
Toluene	0.0490	0.0489	0.0500	0.0500	98	98	75-120	0	15	
Chlorobenzene	0.0509	0.0497	0.0500	0.0500	102	99	75-120	2	15	
Surrogate:										
Dibromofluoromethane					90	89	63-127			
Toluene-d8					94	98	65-129			
4-Bromofluorobenzene					99	100	52-125			
Laboratory ID:	SB0411S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0550	0.0572	0.0500	0.0500	110	114	65-141	4	15	
Benzene	0.0474	0.0476	0.0500	0.0500	95	95	69-121	0	15	
Trichloroethene	0.0466	0.0478	0.0500	0.0500	93	96	75-120	3	15	
Toluene	0.0551	0.0559	0.0500	0.0500	110	112	75-120	1	15	
Chlorobenzene	0.0535	0.0533	0.0500	0.0500	107	107	75-120	0	15	
Surrogate:										
Dibromofluoromethane					98	102	63-127			
Toluene-d8					100	99	65-129			
4-Bromofluorobenzene					104	105	52-125			
Laboratory ID:	SB0412S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0588	0.0588	0.0500	0.0500	118	118	65-141	0	15	
Benzene	0.0497	0.0509	0.0500	0.0500	99	102	69-121	2	15	
Trichloroethene	0.0478	0.0480	0.0500	0.0500	96	96	75-120	0	15	
Toluene	0.0525	0.0545	0.0500	0.0500	105	109	75-120	4	15	
Chlorobenzene	0.0525	0.0544	0.0500	0.0500	105	109	75-120	4	15	
Surrogate:										
Dibromofluoromethane					94	94	63-127			
Toluene-d8					103	108	65-129			
4-Bromofluorobenzene					110	113	52-125			

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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SB-1-1.8</b>					
Laboratory ID:	04-057-01					
Diesel Fuel #2	<b>130</b>	31	NWTPH-Dx	4-11-13	4-11-13	M,N
Lube Oil	<b>430</b>	62	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

<b>Client ID:</b>	<b>SB-1-9.0</b>					
Laboratory ID:	04-057-02					
Diesel Range Organics	<b>ND</b>	30	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	60	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	71	50-150				

<b>Client ID:</b>	<b>SB-1-12.0</b>					
Laboratory ID:	04-057-03					
Diesel Range Organics	<b>ND</b>	33	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	66	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	70	50-150				

<b>Client ID:</b>	<b>SB-1-16.0</b>					
Laboratory ID:	04-057-04					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-15-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	69	NWTPH-Dx	4-15-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	76	50-150				

<b>Client ID:</b>	<b>SB-2-8.0</b>					
Laboratory ID:	04-057-05					
Diesel Fuel #2	<b>36</b>	30	NWTPH-Dx	4-11-13	4-11-13	M
Lube Oil Range Organics	<b>ND</b>	60	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				

<b>Client ID:</b>	<b>SB-2-12.0</b>					
Laboratory ID:	04-057-06					
Diesel Range Organics	<b>ND</b>	34	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	67	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	76	50-150				

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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SB-2-13.0</b>					
Laboratory ID:	04-057-07					
Diesel Fuel #2	<b>110</b>	34	NWTPH-Dx	4-11-13	4-11-13	M
Lube Oil Range Organics	<b>ND</b>	69	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				
<b>Client ID:</b>	<b>SB-2-15.0</b>					
Laboratory ID:	04-057-08					
Diesel Fuel #2	<b>79</b>	33	NWTPH-Dx	4-11-13	4-11-13	M
Lube Oil Range Organics	<b>ND</b>	67	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				
<b>Client ID:</b>	<b>SB-3-8.7</b>					
Laboratory ID:	04-057-09					
Diesel Range Organics	<b>ND</b>	32	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	64	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	63	50-150				
<b>Client ID:</b>	<b>SB-3-15.0</b>					
Laboratory ID:	04-057-11					
Diesel Range Organics	<b>ND</b>	36	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	72	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				
<b>Client ID:</b>	<b>SB-3-18.0</b>					
Laboratory ID:	04-057-12					
Diesel Range Organics	<b>ND</b>	34	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	69	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				
<b>Client ID:</b>	<b>SB-3-20.0</b>					
Laboratory ID:	04-057-13					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	70	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				

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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SB-4-3.7</b>					
Laboratory ID:	04-057-14					
Diesel Range Organics	<b>ND</b>	32	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	65	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	53	50-150				
<b>Client ID:</b>	<b>SB-4-12.0</b>					
Laboratory ID:	04-057-15					
Diesel Range Organics	<b>ND</b>	31	NWTPH-Dx	4-11-13	4-17-13	
Lube Oil Range Organics	<b>ND</b>	62	NWTPH-Dx	4-11-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	61	50-150				
<b>Client ID:</b>	<b>SB-4-18.0</b>					
Laboratory ID:	04-057-16					
Diesel Range Organics	<b>ND</b>	34	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	68	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				
<b>Client ID:</b>	<b>SB-4-20.3</b>					
Laboratory ID:	04-057-17					
Diesel Range Organics	<b>ND</b>	33	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	66	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				
<b>Client ID:</b>	<b>SB-5-2.7</b>					
Laboratory ID:	04-057-18					
Diesel Range Organics	<b>ND</b>	33	NWTPH-Dx	4-15-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	65	NWTPH-Dx	4-15-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	71	50-150				
<b>Client ID:</b>	<b>SB-5-8.0</b>					
Laboratory ID:	04-057-19					
Diesel Range Organics	<b>ND</b>	30	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	61	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				



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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SB-5-18.5</b>					
Laboratory ID:	04-057-21					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	71	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
<b>Client ID:</b>	<b>SB-6-4.0</b>					
Laboratory ID:	04-057-22					
Diesel Range Organics	<b>ND</b>	33	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	65	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				
<b>Client ID:</b>	<b>SB-6-8.0</b>					
Laboratory ID:	04-057-23					
Diesel Range Organics	<b>ND</b>	30	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	60	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				
<b>Client ID:</b>	<b>SB-6-15.0</b>					
Laboratory ID:	04-057-24					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	69	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				
<b>Client ID:</b>	<b>SB-6-18.5</b>					
Laboratory ID:	04-057-25					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	69	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	66	50-150				
<b>Client ID:</b>	<b>SB-7-3.7</b>					
Laboratory ID:	04-057-26					
Diesel Range Organics	<b>ND</b>	32	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	64	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	67	50-150				

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# **NWTPH-Dx**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>SB-7-8.0</b>					
Laboratory ID:	04-057-27					
Diesel Range Organics	<b>ND</b>	30	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	60	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	74	50-150				
<b>Client ID:</b>	<b>SB-7-14.5</b>					
Laboratory ID:	04-057-28					
Diesel Fuel #2	<b>79</b>	36	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	73	NWTPH-Dx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	50	50-150				
<b>Client ID:</b>	<b>SB-7-22.0</b>					
Laboratory ID:	04-057-29					
Diesel Fuel #2	<b>3000</b>	33	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	<b>ND</b>	340	NWTPH-Dx	4-11-13	4-11-13	U1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	131	50-150				

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**NWTPH-Dx  
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0411S1					
Diesel Range Organics	ND	25	NWTPH-Dx	4-11-13	4-15-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-11-13	4-15-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	120	50-150				
Laboratory ID:	MB0411S2					
Diesel Range Organics	ND	25	NWTPH-Dx	4-11-13	4-11-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-11-13	4-11-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	97	50-150				
Laboratory ID:	MB0415S2					
Diesel Range Organics	ND	25	NWTPH-Dx	4-15-13	4-15-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-15-13	4-15-13	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	87	50-150				

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**NWTPH-Dx  
 DUPLICATE QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-057-04							
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			76	82	50-150			
Laboratory ID:	04-057-13							
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			77	75	50-150			
Laboratory ID:	04-057-29							
	ORIG	DUP						
Diesel Fuel #2	2250	879				88	NA	
Lube Oil Range Organics	ND	ND				NA	NA	U1
Surrogate:								
o-Terphenyl			131	97	50-150			
Laboratory ID:	04-104-05							
	ORIG	DUP						
Diesel Range Organics	ND	ND				NA	NA	
Lube Oil Range Organics	ND	ND				NA	NA	
Surrogate:								
o-Terphenyl			97	100	50-150			

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**TOTAL LEAD  
EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	04-057-01					
<b>Client ID:</b>	<b>SB-1-1.8</b>					
Lead	<b>29</b>	6.2	6010C	4-11-13	4-11-13	
Lab ID:	04-057-02					
<b>Client ID:</b>	<b>SB-1-9.0</b>					
Lead	<b>10</b>	6.0	6010C	4-11-13	4-11-13	
Lab ID:	04-057-03					
<b>Client ID:</b>	<b>SB-1-12.0</b>					
Lead	<b>11</b>	6.6	6010C	4-11-13	4-11-13	
Lab ID:	04-057-04					
<b>Client ID:</b>	<b>SB-1-16.0</b>					
Lead	<b>ND</b>	6.9	6010C	4-11-13	4-11-13	
Lab ID:	04-057-05					
<b>Client ID:</b>	<b>SB-2-8.0</b>					
Lead	<b>8.3</b>	6.0	6010C	4-11-13	4-11-13	
Lab ID:	04-057-06					
<b>Client ID:</b>	<b>SB-2-12.0</b>					
Lead	<b>11</b>	6.7	6010C	4-11-13	4-11-13	
Lab ID:	04-057-07					
<b>Client ID:</b>	<b>SB-2-13.0</b>					
Lead	<b>ND</b>	6.9	6010C	4-11-13	4-11-13	

Date of Report: April 17, 2013  
 Samples Submitted: April 9, 2013  
 Laboratory Reference: 1304-057  
 Project: 1177-001

**TOTAL LEAD  
EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	04-057-08					
Client ID:	SB-2-15.0					
Lead	ND	6.7	6010C	4-11-13	4-11-13	
Lab ID:	04-057-09					
Client ID:	SB-3-8.7					
Lead	8.1	6.4	6010C	4-11-13	4-11-13	
Lab ID:	04-057-11					
Client ID:	SB-3-15.0					
Lead	7.9	7.1	6010C	4-11-13	4-11-13	
Lab ID:	04-057-12					
Client ID:	SB-3-18.0					
Lead	ND	6.9	6010C	4-11-13	4-11-13	
Lab ID:	04-057-13					
Client ID:	SB-3-20.0					
Lead	ND	7.0	6010C	4-11-13	4-11-13	
Lab ID:	04-057-14					
Client ID:	SB-4-3.7					
Lead	22	6.5	6010C	4-11-13	4-11-13	
Lab ID:	04-057-15					
Client ID:	SB-4-12.0					
Lead	14	6.2	6010C	4-11-13	4-11-13	

Date of Report: April 17, 2013  
 Samples Submitted: April 9, 2013  
 Laboratory Reference: 1304-057  
 Project: 1177-001

**TOTAL LEAD  
EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	04-057-16					
Client ID:	SB-4-18.0					
Lead	ND	6.8	6010C	4-11-13	4-11-13	
Lab ID:	04-057-17					
Client ID:	SB-4-20.3					
Lead	ND	6.6	6010C	4-11-13	4-11-13	
Lab ID:	04-057-18					
Client ID:	SB-5-2.7					
Lead	73	6.5	6010C	4-11-13	4-11-13	
Lab ID:	04-057-19					
Client ID:	SB-5-8.0					
Lead	8.7	6.1	6010C	4-11-13	4-11-13	
Lab ID:	04-057-21					
Client ID:	SB-5-18.5					
Lead	ND	7.1	6010C	4-11-13	4-11-13	
Lab ID:	04-057-22					
Client ID:	SB-6-4.0					
Lead	22	6.5	6010C	4-11-13	4-11-13	
Lab ID:	04-057-23					
Client ID:	SB-6-8.0					
Lead	8.3	6.0	6010C	4-11-13	4-11-13	

Date of Report: April 17, 2013  
 Samples Submitted: April 9, 2013  
 Laboratory Reference: 1304-057  
 Project: 1177-001

**TOTAL LEAD  
EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	04-057-24					
<b>Client ID:</b>	<b>SB-6-15.0</b>					
Lead	<b>ND</b>	6.9	6010C	4-11-13	4-11-13	
Lab ID:	04-057-25					
<b>Client ID:</b>	<b>SB-6-18.5</b>					
Lead	<b>ND</b>	6.9	6010C	4-11-13	4-11-13	
Lab ID:	04-057-26					
<b>Client ID:</b>	<b>SB-7-3.7</b>					
Lead	<b>13</b>	6.4	6010C	4-11-13	4-11-13	
Lab ID:	04-057-27					
<b>Client ID:</b>	<b>SB-7-8.0</b>					
Lead	<b>7.5</b>	6.0	6010C	4-11-13	4-11-13	
Lab ID:	04-057-28					
<b>Client ID:</b>	<b>SB-7-14.5</b>					
Lead	<b>ND</b>	7.3	6010C	4-11-13	4-11-13	
Lab ID:	04-057-29					
<b>Client ID:</b>	<b>SB-7-22.0</b>					
Lead	<b>ND</b>	6.6	6010C	4-11-13	4-11-13	



Date of Report: April 17, 2013  
Samples Submitted: April 9, 2013  
Laboratory Reference: 1304-057  
Project: 1177-001

**TOTAL LEAD  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-11-13  
Date Analyzed: 4-11-13  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB0411SM1

Analyte	Method	Result	PQL
Lead	6010C	<b>ND</b>	5.0

Date of Report: April 17, 2013  
Samples Submitted: April 9, 2013  
Laboratory Reference: 1304-057  
Project: 1177-001

**TOTAL LEAD  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-11-13  
Date Analyzed: 4-11-13  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB0411SM2

Analyte	Method	Result	PQL
Lead	6010C	<b>ND</b>	5.0

Date of Report: April 17, 2013  
Samples Submitted: April 9, 2013  
Laboratory Reference: 1304-057  
Project: 1177-001

**TOTAL LEAD  
EPA 6010C  
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-11-13  
Date Analyzed: 4-11-13  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: 04-086-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	

Date of Report: April 17, 2013  
Samples Submitted: April 9, 2013  
Laboratory Reference: 1304-057  
Project: 1177-001

**TOTAL LEAD  
EPA 6010C  
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-11-13  
Date Analyzed: 4-11-13  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: 04-057-27

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	<b>6.18</b>	<b>5.90</b>	5	5.0	

Date of Report: April 17, 2013  
Samples Submitted: April 9, 2013  
Laboratory Reference: 1304-057  
Project: 1177-001

**TOTAL LEAD  
EPA 6010C  
MS/MSD QUALITY CONTROL**

Date Extracted: 4-11-13

Date Analyzed: 4-11-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 04-086-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	<b>229</b>	92	<b>231</b>	92	1	

Date of Report: April 17, 2013  
Samples Submitted: April 9, 2013  
Laboratory Reference: 1304-057  
Project: 1177-001

**TOTAL LEAD  
EPA 6010C  
MS/MSD QUALITY CONTROL**

Date Extracted: 4-11-13

Date Analyzed: 4-11-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 04-057-27

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	<b>230</b>	89	<b>232</b>	90	1	

Date of Report: April 17, 2013  
 Samples Submitted: April 9, 2013  
 Laboratory Reference: 1304-057  
 Project: 1177-001

### % MOISTURE

Date Analyzed: 4-10-11

Client ID	Lab ID	% Moisture
SB-1-1.8	04-057-01	19
SB-1-9.0	04-057-02	16
SB-1-12.0	04-057-03	24
SB-1-16.0	04-057-04	28
SB-2-8.0	04-057-05	17
SB-2-12.0	04-057-06	25
SB-2-13.0	04-057-07	27
SB-2-15.0	04-057-08	25
SB-3-8.7	04-057-09	22
SB-3-15.0	04-057-11	30
SB-3-18.0	04-057-12	27
SB-3-20.0	04-057-13	29
SB-4-3.7	04-057-14	23
SB-4-12.0	04-057-15	19
SB-4-18.0	04-057-16	26
SB-4-20.3	04-057-17	24
SB-5-2.7	04-057-18	23
SB-5-8.0	04-057-19	17
SB-5-18.5	04-057-21	29
SB-6-4.0	04-057-22	23
SB-6-8.0	04-057-23	17
SB-6-15.0	04-057-24	28
SB-6-18.5	04-057-25	28
SB-7-3.7	04-057-26	22
SB-7-8.0	04-057-27	17
SB-7-14.5	04-057-28	31
SB-7-22.0	04-057-29	24



### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical gas.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference






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## Chain of Custody

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Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com										Turnaround Request (in working days)		Laboratory Number: 04-057																	
Company: <b>Environ Consulting</b>										(Check One)																			
Project Number: <b>1177001</b>										<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day																			
Project Name: <b>Plummed Quick 5008</b>										<input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days																			
Project Manager: <b>JAYAN RUMAK</b>										<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)																			
Sampled by: <b>DINCE KAYHALL</b>										<input type="checkbox"/> (other) _____																			
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers																								
1	SB-1-1.8	4/11/13	0925	S	4																								
2	SB-1-1.0		0945																										
3	SB-1-12.0		0949																										
4	SB-1-16.0		1014																										
5	SB-2-8.0		1027																										
6	SB-2-12.0		1051																										
7	SB-2-13.0		1052																										
8	SB-2-15.0		1105																										
9	SB-3-8.7		1130																										
10	SB-3-12.0		1133																										
Signature					Company: <b>Environ</b>					Date					Time					Comments/Special Instructions									
										4/11/13 2030					4/11/13 720					out call for analysis									
Relinquished																													
Received																													
Relinquished																													
Received																													
Relinquished																													
Received																													
Reviewed/Date																				Chromatograms with final report <input type="checkbox"/>									

# Chain of Custody

Company: <b>FAIRALLAN</b>		Turnaround Request (in working days)		Laboratory Number: <b>04-057</b>													
Project Number: <b>1177-001</b>		<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days															
Project Name: <b>PRUMMER QUICK STOP</b>		<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)															
Project Manager: <b>SHAWN RUTAK</b>		<input type="checkbox"/> (other)															
Sampled by: <b>DIVAN K.</b>																	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers												
11	SB-3-15.0	4/11/13	1218	S	4												
12	SB-3-18.0		1220														
13	SB-3-20.0		1230														
14	SB-4-3.7		1243														
15	SB-4-12.0		1300														
16	SB-4-18.0		1339														
17	SB-4-20.3		1351														
18	SB-5-2.7		1430														
19	SB-5-8.0		1439														
20	SB-5-15.0		1457														
Signature		Company	Date	Time	Comments/Special Instructions												
		FAIRALLAN	4/11	1230	<b>WCF</b>												
Relinquished		Relinquished															
Received		Received															
Relinquished		Relinquished															
Received		Received															
Relinquished		Relinquished															
Received		Received															
Relinquished		Relinquished															
Reviewed/Date		Reviewed/Date		Chromatograms with final report <input type="checkbox"/>													





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## Chain of Custody

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Company: <b>ENVIRONMENTAL LLC</b>			Turnaround Request (in working days)		Laboratory Number: <b>04-057</b>												
Project Number: <b>1177 001</b>			<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day														
Project Name: <b>Plummer Quick Stop</b>			<input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days														
Project Manager: <b>JAVAN RIVARK</b>			<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)														
Sampled by: <b>Dincek, K.</b>			<input type="checkbox"/> _____ (other)														
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers												
21	SB-5-18.5	4/4/13	1523	5	4	NWT PH-HCID											
22	SB-6-4.0		1537			NWT PH-Gx/BTEX											
23	SB-6-8.0		1542			NWT PH-Gx											
24	SB-6-15.0		1601			NWT PH-Dx											
25	SB-6-18.5		1620			Volatiles 8260C											
26	SB-7-3.7		1648			Halogenated Volatiles 8260C											
27	SB-7-8.0		1650			Semivolatiles 8270D/SIM (with low-level PAHs)											
28	SB-7-14.5		1718			PAHs 8270D/SIM (low-level)											
29	SB-7-22.0		1747			PCBs 8082A											
						Organochlorine Pesticides 8081B											
						Organophosphorus Pesticides 8270D/SIM											
						Chlorinated Acid Herbicides 8151A											
						Total RCRA Metals/ MTCA Metals (circle one)											
						TCLP Metals											
						HEM (oil and grease) 1664A											
						TOTAL LEAD ONLY											
						% Moisture											
Relinquished		Signature	Company	Date	Time	Comments/Special Instructions											
Received			ENVIRONMENTAL LLC	4/4/13	2230	WCF 19											
Relinquished																	
Received																	
Relinquished																	
Received																	
Relinquished																	
Reviewed/Date			Reviewed/Date			Chromatograms with final report <input type="checkbox"/>											